

SEQUENCE LISTING

5 <110> Johnson & Johnson
 <120> EPITOPE TAGGED RECOMBINANT GROWTH ARREST SPECIFIC GENE 6
 PROTEINS
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 <151> 2002-09-24
 <160> 3
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 35 35 40 45
 Ala Phe Gln Val Phe Glu Glu Ala Lys Gln Gly His Leu Glu Arg Glu
 50 55 60
 40 Cys Val Glu Glu Leu Cys Ser Arg Glu Glu Ala Arg Glu Val Phe Glu
 65 70 75 80
 45 Asn Asp Pro Glu Thr Asp Tyr Phe Tyr Pro Arg Tyr Leu Asp Cys Ile
 85 90 95
 Asn Lys Tyr Gly Ser Pro Tyr Thr Lys Asn Ser Gly Phe Ala Thr Cys
 50 100 105 110
 Val Gln Asn Leu Pro Asp Gln Cys Thr Pro Asn Pro Cys Asp Arg Lys
 55 115 120 125
 Gly Thr Gln Ala Cys Gln Asp Leu Met Gly Asn Phe Phe Cys Leu Cys
 130 135 140

Lys Ala Gly Trp Gly Gly Arg Leu Cys Asp Lys Asp Val Asn Glu Cys
 145 150 155 160

5

Ser Gln Glu Asn Gly Gly Cys Leu Gln Ile Cys His Asn Lys Pro Gly
 165 170 175

10

Ser Phe His Cys Ser Cys His Ser Gly Phe Glu Leu Ser Ser Asp Gly
 180 185 190

15

Arg Thr Cys Gln Asp Ile Asp Glu Cys Ala Asp Ser Glu Ala Cys Gly
 195 200 205

20

Glu Ala Arg Cys Lys Asn Leu Pro Gly Ser Tyr Ser Cys Leu Cys Asp
 210 215 220

25

Glu Gly Phe Ala Tyr Ser Ser Gln Glu Lys Ala Cys Arg Asp Val Asp
 225 230 235 240

30

Glu Cys Leu Gln Gly Arg Cys Glu Gln Val Cys Val Asn Ser Pro Gly
 245 250 255

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Ser Tyr Thr Cys His Cys Asp Gly Arg Gly Gly Leu Lys Leu Ser Gln
 260 265 270

40

Asp Met Asp Thr Cys Glu Asp Ile Leu Pro Cys Val Pro Phe Ser Val
 275 280 285

45

Ala Lys Ser Val Lys Ser Leu Tyr Leu Gly Arg Met Phe Ser Gly Thr
 290 295 300

50

Pro Val Ile Arg Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val
 305 310 315 320

55

Ala Glu Phe Asp Phe Arg Thr Phe Asp Pro Glu Gly Ile Leu Leu Phe
 325 330 335

60

Ala Gly Gly His Gln Asp Ser Thr Trp Ile Val Leu Ala Leu Arg Ala
 340 345 350

Gly Arg Leu Glu Leu Gln Leu Arg Tyr Asn Gly Val Gly Arg Val Thr
 355 360 365

Ser Ser Gly Pro Val Ile Asn His Gly Met Trp Gln Thr Ile Ser Val
 370 375 380

Glu Glu Leu Ala Arg Asn Leu Val Ile Lys Val Asn Arg Asp Ala Val
 385 390 395 400
 5 Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly Leu
 405 410 415
 10 Tyr His Leu Asn Leu Thr Val Gly Gly Ile Pro Phe His Glu Lys Asp
 420 425 430
 15 Leu Val Gln Pro Ile Asn Pro Arg Leu Asp Gly Cys Met Arg Ser Trp
 435 440 445
 20 Asn Trp Leu Asn Gly Glu Asp Thr Thr Ile Gln Glu Thr Val Lys Val
 450 455 460
 Asn Thr Arg Met Gln Cys Phe Ser Val Thr Glu Arg Gly Ser Phe Tyr
 465 470 475 480
 25 Pro Gly Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro
 485 490 495
 30 Leu Asp Val Gly Thr Glu Ser Thr Trp Glu Val Glu Val Val Ala His
 500 505 510
 35 Ile Arg Pro Ala Ala Asp Thr Gly Val Leu Phe Ala Leu Trp Ala Pro
 515 520 525
 40 Asp Leu Arg Ala Val Pro Leu Ser Val Ala Leu Val Asp Tyr His Ser
 530 535 540
 Thr Lys Lys Leu Lys Lys Gln Leu Val Val Leu Ala Val Glu His Thr
 545 550 555 560
 45 Ala Leu Ala Leu Met Glu Ile Lys Val Cys Asp Gly Gln Glu His Val
 565 570 575
 50 Val Thr Val Ser Leu Arg Asp Gly Glu Ala Thr Leu Glu Val Asp Gly
 580 585 590
 55 Thr Arg Gly Gln Ser Glu Val Ser Ala Ala Gln Leu Gln Glu Arg Leu
 595 600 605
 60 Ala Val Leu Glu Arg His Leu Arg Ser Pro Val Leu Thr Phe Ala Gly
 610 615 620

Gly Leu Pro Asp Val Pro Val Thr Ser Ala Pro Val Thr Ala Phe Tyr
 625 630 635 640

5

Arg Gly Cys Met Thr Leu Glu Val Asn Arg Arg Leu Leu Asp Leu Asp
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Glu Ala Ala Tyr Lys His Ser Asp Ile Thr Ala His Ser Cys Pro Pro
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Val Glu Pro Ala Ala Ala Asp Tyr Lys Asp Asp Asp Asp Lys
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Asp Tyr Lys Asp Asp Asp Asp Lys
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Met Ala Pro Ser Leu Ser Pro Gly Pro Ala Ala Leu Arg Arg Ala Pro
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Gln Leu Leu Leu Leu Leu Leu Ala Ala Glu Cys Ala Leu Ala Ala Leu
 20 25 30

45

Leu Pro Ala Arg Glu Ala Thr Gln Phe Leu Arg Pro Arg Gln Arg Arg
 35 40 45

50

Ala Phe Gln Val Phe Glu Glu Ala Lys Gln Gly His Leu Glu Arg Glu
 50 55 60

55

Cys Val Glu Glu Leu Cys Ser Arg Glu Glu Ala Arg Glu Val Phe Glu
 65 70 75 80

60

Asn Asp Pro Glu Thr Asp Tyr Phe Tyr Pro Arg Tyr Leu Asp Cys Ile
 85 90 95

60

Asn Lys Tyr Gly Ser Pro Tyr Thr Lys Asn Ser Gly Phe Ala Thr Cys

	100	105	110
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10	Gly Thr Gln Ala Cys Gln Asp Leu Met Gly Asn Phe Phe Cys Leu Cys 130 135 140		
15	Lys Ala Gly Trp Gly Gly Arg Leu Cys Asp Lys Asp Val Asn Glu Cys 145 150 155 160		
20	Ser Gln Glu Asn Gly Gly Cys Leu Gln Ile Cys His Asn Lys Pro Gly 165 170 175		
25	Ser Phe His Cys Ser Cys His Ser Gly Phe Glu Leu Ser Ser Asp Gly 180 185 190		
30	Arg Thr Cys Gln Asp Ile Asp Glu Cys Ala Asp Ser Glu Ala Cys Gly 195 200 205		
35	Glu Ala Arg Cys Lys Asn Leu Pro Gly Ser Tyr Ser Cys Leu Cys Asp 210 215 220		
40	Glu Gly Phe Ala Tyr Ser Ser Gln Glu Lys Ala Cys Arg Asp Val Asp 225 230 235 240		
45	Glu Cys Leu Gln Gly Arg Cys Glu Gln Val Cys Val Asn Ser Pro Gly 245 250 255		
50	Ser Tyr Thr Cys His Cys Asp Gly Arg Gly Gly Leu Lys Leu Ser Gln 260 265 270		
55	Asp Met Asp Thr Cys Glu Asp Ile Leu Pro Cys Val Pro Phe Ser Val 275 280 285		
60	Ala Lys Ser Val Lys Ser Leu Tyr Leu Gly Arg Met Phe Ser Gly Thr 290 295 300		
65	Pro Val Ile Arg Leu Arg Phe Lys Arg Leu Gln Pro Thr Arg Leu Val 305 310 315 320		
70	Ala Glu Phe Asp Phe Arg Thr Phe Asp Pro Glu Gly Ile Leu Leu Phe 325 330 335		
75	Ala Gly Gly His Gln Asp Ser Thr Trp Ile Val Leu Ala Leu Arg Ala		

	340	345	350
5	Gly Arg Leu Glu Leu Gln Leu Arg Tyr Asn Gly Val Gly Arg Val Thr 355 360 365		
10	Ser Ser Gly Pro Val Ile Asn His Gly Met Trp Gln Thr Ile Ser Val 370 375 380		
15	Glu Glu Leu Ala Arg Asn Leu Val Ile Lys Val Asn Arg Asp Ala Val 385 390 395 400		
20	Met Lys Ile Ala Val Ala Gly Asp Leu Phe Gln Pro Glu Arg Gly Leu 405 410 415		
25	Tyr His Leu Asn Leu Thr Val Gly Gly Ile Pro Phe His Glu Lys Asp 420 425 430		
30	Leu Val Gln Pro Ile Asn Pro Arg Leu Asp Gly Cys Met Arg Ser Trp 435 440 445		
35	Asn Trp Leu Asn Gly Glu Asp Thr Thr Ile Gln Glu Thr Val Lys Val 450 455 460		
40	Asn Thr Arg Met Gln Cys Phe Ser Val Thr Glu Arg Gly Ser Phe Tyr 465 470 475 480		
45	Pro Gly Ser Gly Phe Ala Phe Tyr Ser Leu Asp Tyr Met Arg Thr Pro 485 490 495		
50	Leu Asp Val Gly Thr Glu Ser Thr Trp Glu Val Glu Val Val Ala His 500 505 510		
55	Ile Arg Pro Ala Ala Asp Thr Gly Val Leu Phe Ala Leu Trp Ala Pro 515 520 525		
60	Asp Leu Arg Ala Val Pro Leu Ser Val Ala Leu Val Asp Tyr His Ser 530 535 540		
65	Thr Lys Lys Leu Lys Lys Gln Leu Val Val Leu Ala Val Glu His Thr 545 550 555 560		
70	Ala Leu Ala Leu Met Glu Ile Lys Val Cys Asp Gly Gln Glu His Val 565 570 575		
75	Val Thr Val Ser Leu Arg Asp Gly Glu Ala Thr Leu Glu Val Asp Gly		

	580		585		590													
5	Thr	Arg	Gly	Gln	Ser	Glu	Val	Ser	Ala	Ala	Gln	Leu	Gln	Glu	Arg	Leu		
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10	Ala	Val	Leu	Glu	Arg	His	Leu	Arg	Ser	Pro	Val	Leu	Thr	Phe	Ala	Gly		
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20	Arg	Gly	Cys	Met	Thr	Leu	Glu	Val	Asn	Arg	Arg	Leu	Leu	Asp	Leu	Asp		
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25	Glu	Ala	Ala	Tyr	Lys	His	Ser	Asp	Ile	Thr	Ala	His	Ser	Cys	Pro	Pro		
				660					665						670			
	Val	Glu	Pro	Ala	Ala	Ala												
			675															